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AMENDMENTS TO THE CLAIMS

Please cancel claim 40. A complete listing of the claims, including their current status, is provided below.

1-35. (cancelled)

36. (previously added) A method for production of an antibody that specifically binds an antigen of interest, the method comprising the steps of:

culturing a recombinant *Pichia* cell, the cell comprising a vector comprising a first and a second expression cassette, wherein:

said first expression cassette comprises a first promoter operably linked to a nucleic acid encoding an immunoglobulin light chain operably linked to a first signal peptide;

said second expression cassette comprises a second promoter operably linked to a nucleic acid encoding an immunoglobulin heavy chain operably linked to a second signal peptide,

and said culturing provides for expression of the immunoglobulin light and heavy chains; and harvesting specific antigen-binding antibody from culture supernatant, which antibody specifically binds an antigen of interest.

- 37. (previously added) The method of Claim 36, wherein each of said first and second signal sequences is a yeast α -factor signal sequence.
- 38. (previously added) The method of Claim 37, wherein each of said first and second signal sequences is a *Saccharomyces cerevisiae* α-factor signal sequence.
 - 39. (previously added) The method of Claim 36, wherein said Pichia is Pichia pastoris.
 - (40. (cancelled)
- 41. (previously added) The method of Claim 36, wherein said antibody specifically binds dioxin.

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42. (previously added) The method of Claim 36, wherein each of said first and second promoters is an inducible promoter.

43. (previously added) The method of Claim 42, wherein each of said first and second

promoters is an alcohol oxidase promoter.

44. (previously added) The method of Claim 43, wherein said each of first and second

promoters is a Pichia alcohol oxidase promoter.

45. (previously added) The method of Claim 36, wherein the antibody is a mouse antibody, a

humanized mouse antibody, or a human antibody.

46. (previously added) The method of Claim 36, wherein the antibody is recovered from the

culture supernatant at more than about 10mg/l.

47. (previously added) A *Pichia* expression vector comprising:

a first and a second expression cassette, said first cassette comprising a first promoter operably

linked to a nucleic acid encoding an immunoglobulin light chain operably linked to a first signal peptide,

and said second cassette comprising a second promoter operably linked to a nucleic acid encoding an

immunoglobulin heavy chain operably linked to a second signal peptide,

wherein introduction of said vector into a *Pichia* host cell provides for production of a

recombinant immunoglobulin protein that specifically binds an antigen and is secreted by the host cell.

48. (previously added) A recombinant *Pichia* cell containing the expression vector of claim

47.

49. (previously added) A method for production of an antibody comprising the steps of:

culturing the recombinant Pichia cell of claim 48 so as to provide for antibody expression; and

harvesting the antibody from culture supernatant.

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50. (previously added) A method for production of an antibody that specifically binds an antigen of interest, the method comprising the steps of:

culturing a recombinant *Pichia* cell, the cell comprising a vector comprising a first and a second expression cassette, wherein:

said first expression cassette comprising a *Pichia* alcohol oxidase promoter operably linked to a nucleic acid encoding an immunoglobulin light chain operably linked to a first signal peptide;

said second expression cassette comprising a *Pichia* alcohol oxidase promoter operably linked to a nucleic acid encoding an immunoglobulin heavy chain operably linked to a second signal peptide,

and said culturing provides for expression of the immunoglobulin light and heavy chains; and harvesting specific antigen-binding antibody from culture supernatant, which antibody specifically binds an antigen of interest.